

IMPROVED USB ADAPTER FOR BURST MODE COMMUNICATIONS

ABSTRACT OF THE DISCLOSURE

Disclosed is device and method for improved burst communication on a USB bus. In one embodiment, a USB Ethernet adapter device uses the USB Interrupt Channel to send a message to an Ethernet class driver, via the host USB stack, that the Ethernet adapter device has data to transmit on the USB. The interrupt message preferably includes the size of the data packet to be transmitted or the number of packets to send. The class driver responds by instructing the USB stack to configure a new Transfer Descriptor having buffer pointers of sufficient size for the data packet. The USB Host Controller then processes the Transfer Descriptor, thereby inviting the Ethernet adapter device to transmit its data and responsively storing the data in the predetermined buffer.